Amphenol ANTENNA SOLUTIONS

2-Port Microcell Panel Antenna

698-4200 MHz

44°-85° | VPOL/HPOL | MIMO

7834450

Features

- Wideband directional antenna; two ports covering 698-4200 MHz
- Compact, lightweight and easy to install
- Passive Intermodulation -153 dBc @ 2x20W
- Low return loss and high gain with stable performance

iBwave

This model is available in the iBwave In-Building Network Components Database - www.ibwavecomponents.com

ORDERING OPTIONS Select from the following ordering options

SELECT	MODEL NUMBER
Antenna with N-Type Female Connectors	7834450
Antenna with 4.310 Female Connectors	7834450-4310

ELECTRICAL SPECIFICATIONS All Bands

Frequency Range		698-4200 MHz				
Frequency Sub-Range		698-806 MHz	806-960 MHz	1710-2170 MHz	2200-2700 MHz	3400-4200 MHz
Polarization		Vertical and Horizontal				
Gain	Vertically Polarized	6.6 ± 1.3 dBi	7.6 ± 0.4 dBi	9.1 ± 0.7 dBi	8.4 ± 0.9 dBi	6.6 ± 1.4 dBi
	Horizontally Polarized	5.4 ± 1.4 dBi	7.7 ± 0.5 dBi	8.4 ± 1.0 dBi	8.9 ± 0.8 dBi	5.6 ± 0.7 dBi
Azimuth Beamwidth	Vertically Polarized	78.3 ± 13.9°	83.6° ± 12.3°	67.0° ± 7.2°	73.0° ± 21.7°	42.0° ± 56.1°
	Horizontally Polarized	91.2° ± 77.1°	74.5° ± 10.8°	65.0° ± 18.3°	45.0° ± 14.5°	46.8° ± 10.7°
Elevation Beamwidth	Vertically Polarized	29.2° ± 12.7°	70.5° ± 15.5°	19.4° ± 20.5°	44.5° ± 17.9°	20.9° ± 17.8°
	Horizontally Polarized	37.1° ± 10.7°	60.5° ± 17.7°	49.0° ± 22.8°	45.2° ± 21.4°	8.4° ± 1.4°
Impedance		50Ω				
VSWR		≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0
Passive Intermodulation 3rd Order for 2x20 W Carriers		-153 dBc	-153 dBc	-153 dBc	-153 dBc	-153 dBc
Maximum Power		50W				
Connector Type		2 Ports, N-Type Female or 4.3-10 Female (specify when ordering)				

MECHANICAL SPECIFICATIONS

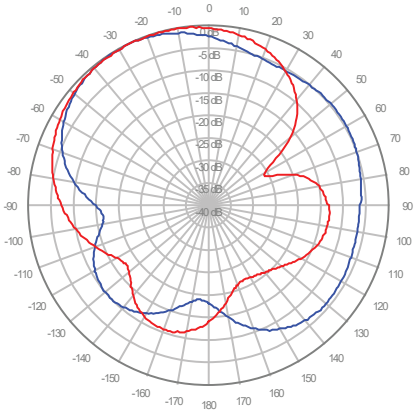
Antenna	Length	404 mm (15.9 in)
	Width	180 mm (7.1 in)
	Depth	62 mm (2.4 in)
Net Weight		1.2 kg (2.6 lbs)
Operating Temperature		-55° to +60° C (-67° to +140° F)
Operational Humidity		< 95%
Radome Material		PVC
Radome Color		White
Mounting Options		Fasteners and screws included for wall mounting

Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.

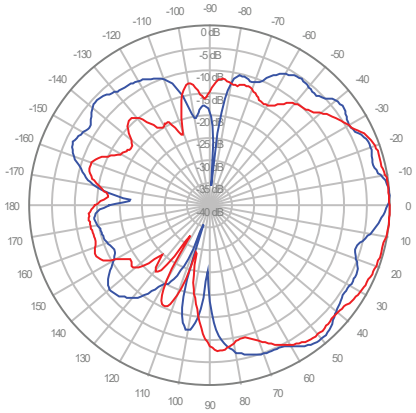
7834450

750 MHz
850 MHz

Low Band - Vertically Polarized

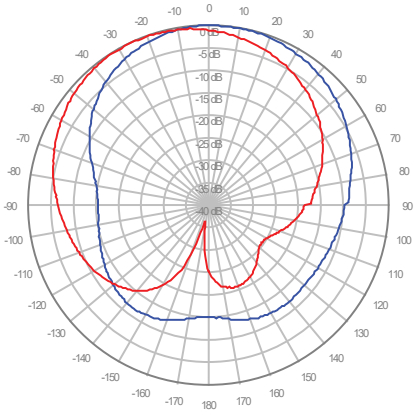


Azimuth

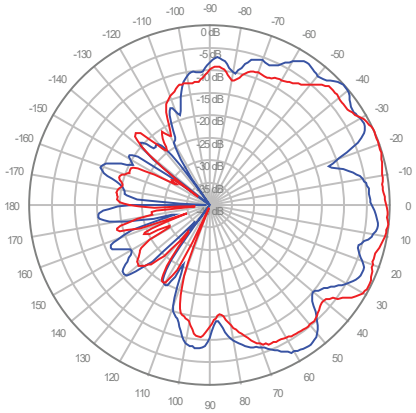


Elevation

Low Band - Horizontally Polarized



Azimuth

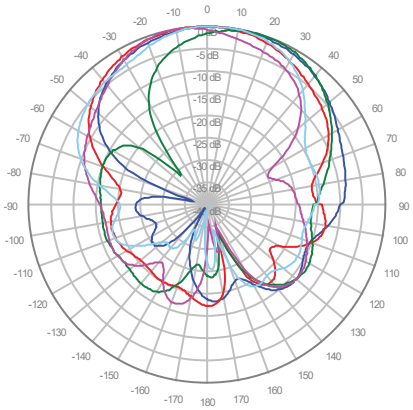


Elevation

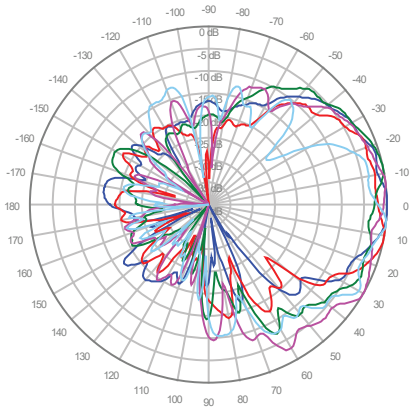
7834450

1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Mid Band - Vertically Polarized

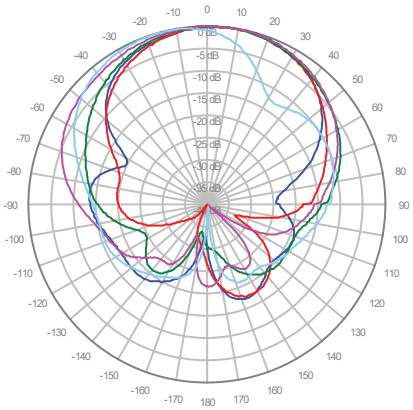


Azimuth

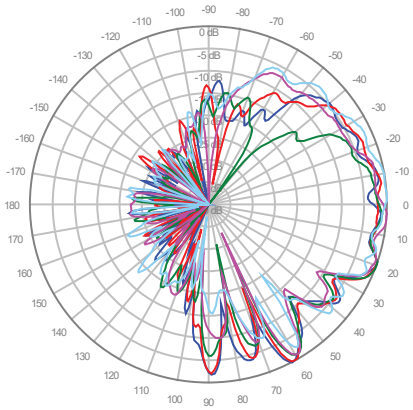


Elevation

Mid Band - Horizontally Polarized



Azimuth

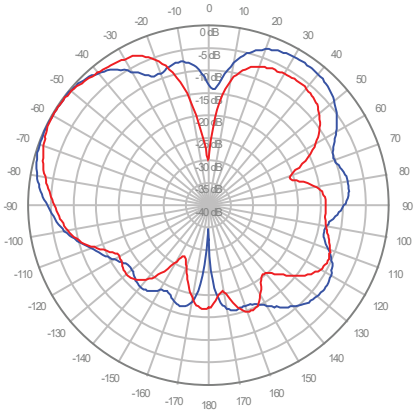


Elevation

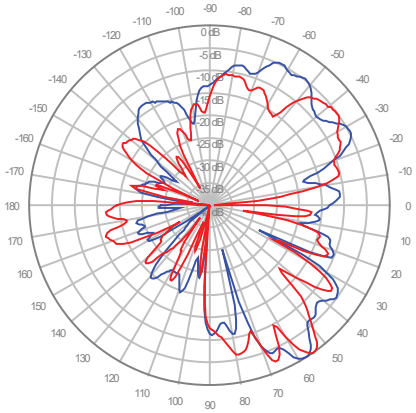
7834450

3600 MHz
4000 MHz

High Band - Vertically Polarized

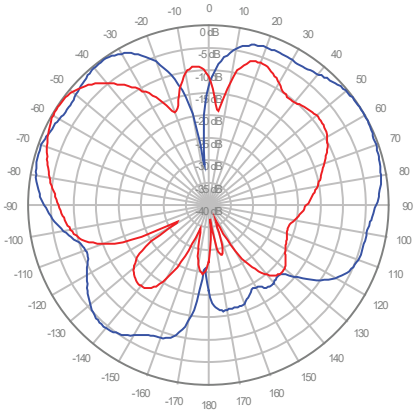


Azimuth

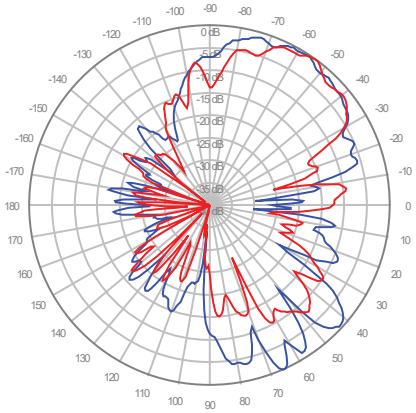


Elevation

High Band - Horizontally Polarized



Azimuth



Elevation